

STARIKOV, G.M., dotsent

Surgical treatment of otogenous septicopyemia. Vest.oto-rin. 18
no.4:48-51 J1-Ag '56. (MLBA 9:9)

1. Iz kafedry bolezney ukha, gorla i nosa Smolenskogo meditsinskogo
instituta (nauchnyy rukovoditel' - prof. N.N.Uzol'tsev)
(SINUS THROMBOSIS, surgery,
otogenous (Rus))

Country : USSR
Category: Human and Animal Morphology (Normal and Pathological).
Nervous System. Peripheral Nervous System.

S

Abs Jour: RZhBiol., No 2, 1959, No 7553

Author : Starikov, G. M.
Inst : Smolensk Medical Institute
Title : The Changes in the Nervous System of the Wall of
Sigmoid Sinus in Thrombosis

Orig Pub: Tr. Smolenskogo med. in-ta, 1957, 8, 250-267

Abstract: By the method of impregnation according to Bils-
hovsky-Gross in Lavrent'yev's modification, the
sigmoid sinus (SS) of 20 human cadavers and pieces
of the wall of SS of 30 patients were studied. Pre-
sence in the wall of SS of powerful nervous appa-

Card : 1/2

S-27

STARIKOV, G.M., dotsent

Work of the Smolensk Medical Institute in the training of personnel.
Zdrav.Ros.Feder. 3 no.12:3-7 D '59. (MIRA 13:4)

1. Direktor Smolenskogo meditsinskogo instituta.
(SMOLENSK--MEDICINE--STUDY AND TEACHING)

STARIKOV, G.M., dotsent, otv.red.; YUDENICH, V.A., prof., red.; OGLOBLIN, A.A., prof., zasluzhennyy deyatel' nauki, red.; PETHYAYEVA, A.T., prof., zasluzhennyy deyatel' nauki, red.; ANISIMOVA-ALEKSANDROVA, V.V., dotsent, red.; MARGOLIN, G.S., prof., red.; KARTAVENKO, A.N., prof., red.; KISELEV, M.S., tekhn.red.

[Forty years of the Smolensk State Medical Institute, 1920-1960]
40 let Smolenskomu gosudarstvennomu meditsinskomu institutu,
1920-1960 gg. Red.kollegiia: G.M.Starikov i dr. Smolensk, Izd-vo
Smolenskogo gos.med.in-ta, 1960. 189 p. (MIRA 13:7)

1. Russia (1917- R.S.F.S.R.) Ministerstvo zdavookhraneniya.
(SMOLENSK--MEDICINE--STUDY AND TEACHING)

KARTSEVA, O.P.; LYCHAK, P.P.; SMIRNOVA, V.V.; STARIKOV, G.M., dotsent,
nauchnyy red.:

[Bibliography of scientific works by members of the Smolensk
State Medical Institute, 1920-1959] Bibliografiia nauchnykh
rabot sotrudnikov Smolenskogo Gosudarstvennogo meditsinskogo
instituta, 1920-1959 gg. Smolensk, 1960. 310 p.
(MIRA 14:4)

1. Smolensk. Smolenskiy Gosudarstvennyy meditsinskiy institut.
2. Sotrudniki biblioteki Smolenskogo Gosudarstvennogo meditsinskogo
instituta (for Kartseva, Lychak, Smirnova). 3. Direktor Smolenskogo
Gosudarstvennogo meditsinskogo instituta (for Starikov).

(BIBLIOGRAPHY--MEDICINE)

STARIKOV, G.M., dotsent

Reflexes from the interoceptors of the sigmoid sinus of the dura mater. Zhur. ush., nos. i gorl. bol. 20 no.1:59-63 Ja-F '60.
(MIRA 14:5)

1. Kafedra bolezney ukha, gorla i nosa Smolenskogo meditsinskogo instituta.

(REFLEXES)

(DURA MATER)

(BLOOD PRESSURE)

STARIKOV, G.

Dispensary in a capital should be a model. Grazhd.av. 18
no.8:28 Ag '61. (MIRA 14:8)

(Vnukovo--Dispensaries)

STARIKOV, G.M., dotsent

Otogenous sinus thrombosis as revealed by clinical data. Zhur.
ush., nos. i gorl. bol. 21 no.1:41-45 Ja-F '61. (MIRA 14:6)

1. Klinika bolezney ukha, gorla i nosa Smolenskogo meditsinskogo
instituta.

(EAR—DISEASES)

STARIKOV, G.M., dotsent

Clinical record of the treatment of otogenic sinus thrombosis.
Zhur. ush. nos. i gorl. bol. 21 no.4:18-21 JI-Ag '61. (MIRA 15:1)

1. Iz kafedry bolezney ukha, gorla i nosa Smolenskogo meditsinskogo
instituta. (THROMBOSIS) (EAR, DISEASES)

STARIKOV, G.M., kand.med.nauk; NOVIKOV, M.G.

Prevention and treatment of anginas and chronic tonsillitis in an industrial plant. Soy. med. 25 no.7:119-122 J1 '61. (MIRA 15:1)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - dotsent G.M.Starikov)
Smolenskogo meditsinskogo instituta.
(TONSILS...DISEASES)

STARIKOV, I., polkovnik.

Overcoming grounds contaminated by radioactive substances. Za rul.
15 no.4:11-12 Ap '57. (MIRA 10:6)
(Radioactivity--Safety measures) (Radioactive fallout)

USSR/Electronics - Television Competitions

Mar 53

"Results of the Competition on Mass Television Receivers"

Radio, No 3, pp 43-45

Second prizes of 10,000 rubles were awarded to G. A. Vilkov for the 20-tube "TV-3" receiver and to V. B. Ivanov and I. N. Tovbin for the 15-tube "Luch" receiver. An incentive award of 3,000 rubles was awarded to I. G. Starikov for his "Pioner" and one of 2,000 rubles was awarded to V. A. Klibson, M. G. Markovich, D. M. Murin, and D. S. Kheyfets for their 14-tube "Leningrad". /Klibson and Kheyfets were designers of the commercial "Leningrad T-2" receiver. / On the whole, competition was adjudged unsuccessful.

PA 255T81

STARIKOV, I.

The "Pioneer" television set. Radio no.9:36-41 S '53. (MLRA 6:9)
(Television--Receivers and reception)

STARIKOV, I.

"Pioneer." Installation and tuning of the television set. Radio no.12:
49-51 D '53. (MLRA 6:12)

(Television--Receivers and reception)

STARIKOV, I. G.

"A Television Receiver with Few Tubes" (Malolampovi Televizor), State Publishing Agency for Energy (Gosudarstvennoye Energeticheskoye Usdatelstvo), Moscow-Leningrad, 1954. This 40 page booklet is No. 197 of the Popular Radio Library.

D 183758, 19 Apr 55

STARIKOV, I.G.; SPIZHEVSKIY, I.I., redaktor; TARASOV, F.I., redaktor;
BERG, A.I., redaktor; DZHIGIT, I.S., redaktor; YELIN, O.G., redaktor;
KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor; TRAMM, B.F.,
redaktor; CHECHIK, P.O., redaktor; SHAMSHUR, V.I., redaktor; FRIDKIN,
A.M., tekhnicheskii redaktor.

[Television set with few tubes] Malolampovyi televizor. Pod red. L.I.
Spishevskogo. Moskva, Gos. energ. izd-vo, 1954. 37 p. (Massovaya
radiobiblioteka, no.197) [Microfilm] (MLRA 7:12)
(Television)

STRIKOV, I. I.

Cand. Tech. Sci.

Dissertation: "Kinematics and Dynamics of Modern Shutters in Aerial Cameras." Moscow
Order of the Labor Red Banner Higher Technical School imeni N. E. Bauman, 27 Jan 47.

SC: Vechernyaya Moskva, Jan, 1947 (Project #17836)

The duration of exposure of the focal-plane shutter with independent movement of blinds is determined; also investigated are the changes of the exposure time needed by the shutter design is presented.

BOGDANOV, Yuriy Mikhaylovich; STARIKOV, I.S., kand.tekhn.nauk, retsenzent;
ROMANOV, A.D., kand.tekhn.nauk, retsenzent; ZAKAZNOV, N.P., kand.
tekhn.nauk, red.; EL'KIND, V.D., tekhn.red.; UVAROVA, A.F.,
tekhn.red.

[Precision instruments] Pribory tochnoi mekhaniki. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 415 p.
(MIRA 14:2)

(Measuring instruments)

24,6520

S/119/60/000/009/001/008
B012/B058

AUTHORS: Skorodumov, S. A., and Starikov, I. V.

TITLE: Methods of Designing ²⁵Circuits of Nuclear Magnetometers 19

PERIODICAL: Priborostroyeniye, 1960, No. 9, pp. 1-5

TEXT: The so-called method of free nuclear induction for measuring the modulus of the field strength vectors of weak magnetic fields was elaborated during the last five years on the basis of a study of the magnetic properties of atomic nuclei. A specific feature of this method is the measurement of the Larmor precession frequency f_0 of the nuclear magnetization vector, round the vector of the magnetic field H_0 to be measured. The practical application of this method, its advantages and disadvantages in constructing an apparatus are explained in short. Several block diagrams of nuclear magnetometers are being developed at present. Their mode of operation is based on measuring precession frequency by one or the other method. The resulting value is used for calculating the strength of the field measured. A survey of the various

Card 1/3

Methods of Designing Circuits of Nuclear
MagnetometersS/119/60/000/009/001/008
B012/B058

block diagrams is given. They are subdivided into two groups according to their modes of operation. The difference between the measured frequency f_0 and the frequency of the calibration oscillator is applied for the first group. The field strength H_0 is determined from formula (3). The block diagram of such a magnetometer is shown in Fig. 3, and its shortcomings are mentioned. Such magnetometers are mainly used in laboratories. The second group can be subdivided into diagrams of two types. One type is based on reading the cycles of the calibrating frequency during the variable time determined by precession frequency. The second type is based on reading the precession-frequency periods during a certain time determined by the calibration oscillator. The first type shows an essential deficiency: In the case of these magnetometers, neither the precession frequency nor the field measured can be read directly. This and the complicated circuit were the reason for not using this type of magnetometer when designing nuclear magnetometer circuits. The second type formed the basis for the apparatus designed by VNIIEP (Fig. 4). Measurement by means of magnetometers constructed according to the block diagram of Fig. 4 is described in short.

✓B

Card 2/3

STARIKOV, I.V., inzh.

Automatic control of the ammonia conversion process. Mekh.1
avtom.proizv. 15 no.8:32-35 Ag '61. (MIRA 14:9)
(Ammonia) (Automation)

22(3)

SOV/175-58-6-12/41

AUTHOR: Starikov, M., Colonel

TITLE: How Cadets Acquire Methodical Habits in Fire Preparation

PERIODICAL: Tankist, 1958, Nr 6, pp 20-21 (USSR)

ABSTRACT: The article deals with the teaching methods in courses and schools. Simultaneously with their studies the cadets are taught how to be an instructor, a tank commander, a platoon commander, etc. Instructor Tkachev, officer Potulov, Instructor Stoyanov, Hero of the Soviet Union Lieutenant Colonel Artem'yev, all of them try to create a methodical system of studies. The cadets must acquire both theoretical and practical knowledge, and must prepare to carry out the duties of a leader. Practical examples taken from the last World War, and the firing range experience, are to be the guiding principles in teaching. Organization, fire, supply, armament, loading

Card 1/2

SOV/175-58-6-12/41

How Cadets Acquire Methodical Habits in Fire Preparation

and unloading tanks, documentation, communication
are the subjects discussed fully at the meetings.

Card 2/2

STARIKOV, M.A.

Results of the work of the Mining Institute of the Academy of Sciences of the Ukrainian S.S.R. on the subject "Mining of deep-lying coal and ore deposits" in 1956. Visnyk AN URSR 28 no.10:33-36 0 '57. (MIRA 10:12)

(Mining engineering)

24(3), 18(6)
AUTHORS:

Garif'yanov, N. S., Starikov, M. A.

SOV/56-35-3-43/61

TITLE:

The Paramagnetic Electron Resonance in the Alloys of Alkali Metals (Elektronnyy paramagnitnyy rezonans v splavakh shchelochnykh metallov)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol 35, Nr 3, pp 798 - 799 (USSR)

ABSTRACT:

Several earlier papers (Refs 1,2,3) deal with the influence exercised by impurities upon the resonance absorption in metals, which influence is due to that exercised by conductivity electrons. The authors investigated (on the frequency of 290 megacycles and at $T = 90^{\circ}\text{K}$, $T = 300^{\circ}\text{K}$) the resonance absorption in sodium alloys as a function of the concentration of the components. As components the metals Li, K, Hg, Pb and the Wood(Vud) alloy were used. The method of investigation has already been investigated in a previous paper (Ref 4). The production of samples is described in short. In the initial Na metal the width ΔH (which was measured between points of the curve of resonance absorption which corresponds to the half intensity) amounts in the maximum to 16 Oersted at room temperature and to 9 Oersted at 90°K . The

Card 1/3

The Paramagnetic Electron Resonance in the Alloys of Alkali Metals SOV/56-35-3-43/61

data concerning ΔH found here agree with the results obtained by H. S. Gutowsky (Gutovskiy) and P. J. Frank (Ref 6). The results obtained by measuring paramagnetic resonance in the alloys showed the following: The metals used as components of the alloys may be subdivided into 2 groups. The first group comprises the metals Li and K, which exercise a slight influence upon ΔH , and, consequently, also upon T_1 and T_2 (as to the significance of T_1 and T_2 see the aforementioned previous paper). In the alloys Na-K ΔH depends in a higher degree on temperature than in the initial metal. The second group comprises the heavy metals Hg, Pb and Wood's alloy, which enlarge ΔH nearly 10^4 times as much as the metals of the first group. In the alloys of these metals ΔH does not depend on temperature. The authors also investigated the paramagnetic resonance in lithium alloys. As components of these alloys Na, K, Hg, Pb and Wood's alloy are used. The alkali metals Na and K also exercise a weak influence upon lithium alloys. However, only 0,001% of the heavy components Hg and Pb and of the Wood's alloy broaden the line to such

Card 2/3

The Paramagnetic Electron Resonance in the Alloys
of Alkali Metals

SOV/56-35-3-43/61

an extent that it is not possible to observe absorption in these alloys. The quantitative results obtained for these alloys are not given because of the insufficient purity of the initial metal. The results obtained agree with the theory developed by R. J. Elliott. In the conclusion, the authors thank K. A. Valiyev for discussing the results. There are 2 figures and 8 references, 3 of which are Soviet.

ASSOCIATION: Fiziko-tekhnicheskiy institut Kazanskogo filiala Akademii nauk SSSR. (Physico-Technical Institute of the Kazan' Branch of the Academy of Sciences, ~~USSR~~).

SUBMITTED: May 31, 1958

Card 3/3

STARIKOV, F. I.

PHASE I BOOK EXPLOITATION

SOV/5274

Bazilevich, Sergey Vladimirovich, Boris Leonidovich Lazarev, Modest Andreyevich Starikov, and Boris Viktorovich Goloskov

Metody eksperimental'nogo issledovaniya domennogo protsessa (Methods for the Experimental Investigation of the Blast-Furnace Process) Sverdlovsk, Metallurgizdat, 1960. 256 p. Errata slip inserted. 3,200 copies printed.

Reviewer: I. S. Kulikov, Candidate of Technical Sciences; Ed.: L. Z. Khodak; Ed. of Publishing House: F. K. Chapaykina; Tech. Ed.: R. M. Matlyuk.

PURPOSE: This book is intended for technical personnel of industrial laboratories and for workers at scientific research institutes. It may also be of use to personnel of blast-furnace plants and to students at schools of higher and secondary education.

COVERAGE: Methods of experimental investigations of the blast-furnace smelting process are reviewed. Equipment and apparatus

Card ~~1~~/7

Methods for the Experimental Investigation (Cont.) SOV/5274

used for investigating the various zones of a blast furnace are described. Also briefly outlined are methods of laboratory research in the field of cast-iron metallurgy. No personalities are mentioned. There are 236 references, mostly Soviet.

TABLE OF CONTENTS:

Introduction	3
Ch. I. Methods of Appraising the Metallurgical Properties of Sinter and Ore	7
1. Sampling of raw materials for the chemical analysis	7
2. Resistance of the stock to gas passage	8
3. Temperature of softening and smelting	13
4. Reducibility of sinter and ores	19
5. Firmness and porosity of sinter	29
Ch. II. Methods of Determining the Metallurgical Value of Coke	32
1. Physical properties of coke	32
Sampling of coke	33

Card ~~2/7~~

STARIKOV, M. D.

Starikov, M. D. - "Investigation of the Effect of the Vapor-Air Current in a Gas Generator on the Calorific Value of the Gas and on the Effectiveness of Operation of a Gas-Generator Tractor." Min Higher Education USSR. Moscow Inst of the Mechanization and Electrification of Agriculture imeni V. M. Molotov. Moscow, 1956 (Dissertation for the Degree of Candidate in Technical Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127

STARIKOV, I. Ya., Cand Tech Sci -- (diss) "Basic problems of the dynamics of gyroscopic measuring device of the gyroinclinometer." Leningrad, 1959. 18 pp; with charts; (Ministry of Higher Education USSR, Leningrad Inst of Aviation Instrument Building); number of copies not given; price not given; bibliography on pp 17-18; (KL, 24-60, 133)

SOV/35-59-9-7623

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959, Nr 9, p 119 (USSR)

AUTHOR: Starikov, I.Ya.

TITLE: Several Questions of the Dynamics of the Gyrometer of the Inclinometer

PERIODICAL: Tr. Leningrad. in-ta aviats. priborostr; 1959, Vol 19, pp 167 - 184

ABSTRACT: The gyroscopic inclinometer IT intended for measuring the deflection of bore holes is fitted with two gyrosystems^q - with a normal course indicator and a gyrometer which is a gyroscope with three degrees of freedom, which measures the angle in a horizontal plane relative to the course indicator (with an accuracy of $\pm 3^\circ$) and the angle relative to the vertical (with an accuracy of $\pm 5^\circ$) within the limits of the inclination up to $45 - 50^\circ$. The examination that was carried out on the character of the motion of the measuring gyrosystem was done for the purpose of finding out its principal suitability for the aforementioned instrument, the influence of the constant characteristics of correction, the influence of the pendulum action, the inclination of the bore hole and the angular velocity, as well as to establish the duration of relaxation of the gyrosystem. In order to solve this problem, phase trajectories were plotted from which corresponding

Card 1/2

✓

SOV/35-59-9-7623

Several Questions of the Dynamics of the Gyrometer of the Inclinator

conclusions were drawn. In the article an analysis is given of the differential equations of the motion of the gyrosystem in the case of asymmetrical correction and constant angular velocity with an allowance for the influence of all the other factors. As a result, the author arrived at the conclusion that the present design of the measuring gyrosystem, having a positive pendulum action, is fully suitable for the control of the deflection of bore holes and can insure the required accuracy of measuring the inclination up to ± 0.05 and the accuracy of measuring the azimuth up to ± 5 deg/hr.

K.K. Glazenap

✓

Card 2/2

13.2520

255b1

S/123/61/000/011/027/034
A004/A101

AUTHORS: Tunimanov, A. Z.; Starikov, I. Ya.

TITLE: Gyroscopic inclinometer

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 11, 1961, 29, abstract 11D188 (V sb. "1-ya Mezhevuz. nauchno-tekhn. konferensiya po probl. sovrem. giroskopii". Leningrad, 1960, 142-156)

TEXT: The authors report on the fabrication of a pilot model of the ИГ-1 (IG-1) gyroscopic inclinometer (of 75 mm diameter) by the "Geologorazvedka" Plant in cooperation with the Leningradskiy institut aviatsionnogo priborostroyeniya (Leningrad Institute of Aviation Instruments). The inclinometer is intended for use in the drilling technology to determine the angle and azimuth of inclination of bore holes and ensures: the direct reading of the distortion parameters of bore holes, of the zenith angle and the inclination azimuth; comparatively small dimensions of the gyroscopic units for the given accuracy; continuous recording depicting on a tape the bore hole cross section with the given curvature at any depth. IG-1 consists of two gyroscopic systems: 1) the gyroscopic measuring device of the bore hole distortion possessing the property of fixing the revolu-

Card 1/2

Gyroscopic inclinometer

25541

S/123/61/000/011/027/034
A004/A101

tion of the gyroscope along the line of intersection of the horizon plane and bore hole inclination. This device is a three-degree gyroscope with azimuthal and zenith correction actuated by the mercury levels. The signals are read out from corresponding potentiometers; 2) the gyroscopic path indicator keeping the axis of the proper revolution of the gyroscope in a definite direction relative to the countries of the world. The authors describe the operation of the gyroscope, derive motion equations of each system, and present the results of laboratory tests of the device. There are 5 figures.

N. Rogov

[Abstracter's note: Complete translation]

Card 2/2

S/146/62/005/001/010/011
D234/D301

AUTHOR: Starikov, I.Ya.

TITLE: A gyroscopic vertical with "liquid correction"

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye,
v. 5, no. 1, 1962, 89-96

TEXT: The gyroscopic vertical designed at the author's institute consists of the usual 3-degree gyroscope with a correcting device in the form of a ring-shaped container divided into sections by spiral-shaped walls and filled with a liquid of large specific weight (e.g. mercury). The operation of the vertical is described and an elementary theory is given. It is stated that applications are possible when accelerations are comparatively small and when gyroscopic horizons with electric correction cannot be used. There are 5 figures. ✓

ASSOCIATION: Leningradskiy institut aviatsionnogo priborostroyeniya
(Leningrad Institute of Aircraft Instrument Construction)

SUBMITTED: June 12, 1961

Card 1/1

L 40998-66 EWT(d)/FSS-2/EEC(k)-2 BC

ACC NR: AR6014109

SOURCE CODE: UR/0272/65/000/011/0204/0204

AUTHOR: Starikov, I. Ya.

TITLE: Correction of the gyro-horizon with a gyroscopic pendulum

SOURCE: Ref. zh. Metrologiya i izmeritel'naya tekhnika, Abs. 11.32.1748

REF SOURCE: Tr. Lenigr. in-t aviats. priborostr., vyp. 44, 1964, 83-89.

TOPIC TAGS: gyroscope, mensuration geometry

ABSTRACT: This is an analysis of the character of motion of the gyroscopic horizon being corrected by a gyroscopic pendulum. 3 illustrations. Translation of abstract

SUB CODE: 13, 17

Card 1/1

11b

UDC: 389.531.383

1955, No. 4.

Spivak, A. A. - "The density of ions in crystals" (Some relationships between density and crystal structure of substances). Alma-Ata, 1955. Min Higher Education USSR. Kazakh State U imeni S. M. Kirov. (Dissertations for degree of Candidate of Physicomathematical Sciences.)

SC: Knizhnaya letopis', No 48. 26 November 1955. Moscow.

STARIKOV, K.Z.

Possible magnetic anomaly in the Lake Zhaksyalakol' region
(Kustanay Province). Uch.zap.Kazakh.un. 37 no.4:176 '58.
(MIRA 15:4)
(Zhaksyalakol' Lake region--Magnetic anomalies)

40014

S/035/62/000/008/059/090
A001/A101

3,4000 (4302)

AUTHOR: Starikov, K. Z.

TITLE: Direct solution of the Potenot problem

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 8, 1962, 11,
abstract 8G98 ("Uch. zap. Kazakhsk. un-ta", 1960, v. 46, 121 - 123).

TEXT: The following formulae are recommended by the authors for calculating
coordinates of the fourth point using the angles, measured at this point, between
the directions to three initial points:

$$x = x_2 + \frac{A'C - AC'}{(A - C)^2 + (A' - C')^2} (A' - C'),$$

$$y = y_2 + \frac{A'C - AC'}{(A - C)^2 + (A' - C')^2} (A - C),$$

Card 1/2

Direct solution of the Potenot problem

S/035/62/000/008/059/090
A001/A101

where

$$A = x_1' + y_1' \operatorname{ctg} \alpha, \quad C = x_3' - y_3' \operatorname{ctg} \beta,$$

$$A' = y_1' - x_1' \operatorname{ctg} \alpha, \quad C' = y_3' + x_3' \operatorname{ctg} \beta,$$

$$x_1' = x_1 - x_2, \quad y_1' = y_1 - y_2, \quad x_3' = x_3 - x_2,$$

$y_3' = y_3 - y_2$; $x_1, y_1, x_2, y_2, x_3, y_3$ are coordinates of initial points, α and β are angles at the point being determined between adjacent directions to initial points.

V. Pavlov

[Abstracter's note: Complete translation]

Card 2/2

STARIKOV, K.Z.

Determination of the thickness of a glacier by the width and
inclination angles of the edges of a bed. Geog. sbor. no.17:
31-33 '64. (MIRA 18:8)

STARIKOV, Kh.N., agronom

Deep drainage of lowland bogs in the Meshchera region. Gidr.1
mel. 14 no.11:41-48 N '62. (MIRA 15:12)

1. Meshcherskaya ZOMS.
(Meshchera--Drainage)
(Peat soils)

DUDNIK, Tina Mitrofanovna, kand.tekhn.nauk; STARIKOV, Lenin Alekseyevich, kand.ekon.nauk; NEZHENTSEV, Vadim Vasil'yevich, gornyy inzh.; SUROVA, V.A., red.izd-va; IL'INSKAYA, G.M., tekhn.red.

[Productive capacity of mines and its utilization] Proizvodstvennye moshchnosti shakht i ikh ispol'zovanie. Moskva, Ugletekhizdat, 1958. 112 p. (MIRA 12:4)

1. Kafedra ekonomiki i organizatsii gornogo proizvodstva Khar'kovskogo inzhenerno-ekonomicheskogo instituta (for Dudnik, Starikov, Nezhentsev).

(Coal mines and mining)

DUDNIK, T.M.; STARIKOV, L.A.; NEZHENTSEV, V.V.; DOPPEL'MAYYER, K.K.;
STEPUN, A.O., otv.red.; OSVAL'D, E.Ya., red.izd-va; LOMILINA,
L.N., tekhn.red.; SHKLYAR, S.Ya., tekhn.red.

[Principles of the analysis of mine economics] Osnovy analiza
khoziaistvennoi deiatel'nosti shakhty. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po gornomu delu, 1959. 103 p. (MIRA 12:12)
(Mining industry and finance) (Mine management)

STARIKOV, L.A., kand.ekon.nauk; DOPPEL'MAYER, K.K., gornyy inzh.-
ekonomist; NEZHENTSEV, V.V., gornyy inzh.-ekonomist; KOPTLOVA,
L.S., gornyy inzh.-ekonomist.

"Planning in coal mining enterprises" by T.M.Dudnik. Re-
viewed by L.A.Starikov, and others. Ugol' Ukr. 3 no.12:42
D '59. (MIRA 13:4)

(Mine management) (Dudnik, T.M.)

NIKONOV, A.P., kand. tekhn. nauk; STARIKOV, L.A., inzh.

Method for choosing effective areas of the application of composite and separate systems of power supply using BESM-2m electronic computers. Teploenergetika 10 no.11:51-55 N '63.

1. Sibirskiy energeticheskiy institut Sibirskogo otdeleniya AN SSSR.

KUZNETSOV, Yu.A.; MAKAROV, A.A.; MELENT'YEV, L.A.; MERENKOV, A.P.; NEKRASOV, A.S.; TSVETKOV, N.I.; KUZNETSOV, Yu.A.; MAKAROVA, A.S.; KARPOV, V.G.; MANSUROV, Yu.V.; SYROV, Yu.P.; KHRILEV, L.S.; TSVETKOVA, L.A.; VOYTSEKHOVSKAYA, G.V.; YEFTIMOV, N.T.; LEVENTAL', G.B.; KHANAYEV, V.A.; BELYAYEV, L.S.; GAMM, A.Z.; KARTELEV, B.G.; KRUMM, L.A.; LIOPO, T.N.; SVIRKUNOV, N.N.; DRUZHININ, I.P.; KONOVALENKO, Z.P.; KHAM'YANOVA, N.V.; SHVARTSEBERG, A.I.; NIKONOV, A.P.; STARIKOV, L.A.; POPYRIN, L.S.; PSHENICHNOV, N.N.; TROSHINA, G.M.; CHEL'TSOV, M.B.; SVETLOV, K.S.; SUMAROKOV, S.V.; TAKAYSHVILI, M.K.; TOIMACHEVA, N.I.; KHASILEV, V.Ya.; KOSHELEV, A.A.; KUDINOVA, L.I., red.

[Methods for using electronic computers in the optimization of power engineering calculations] Metody primeneniia elektronno-vychislitel'nykh mashin pri optimizatsii energeticheskikh raschetov. Moskva, Nauka, 1964. 318 p.

(MIRA 17:11)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Energeticheskii institut. 2. Chlen-korrespondent AN SSSR (for Melent'yev).

ANISHCHENKO, I.A., fel'dsher (Shakhty Rostovskoy oblasti); FIALKO, V.Ye.,
fel'dsher (Vulkaneshty Moldavskoy SSR); STARIKOV, L.M., fel'dsher;
SUSLOVA, V.A., akusherka (poselok Stakhanovskiy Kirovskoy oblasti)

Improved method for preserving chlorethyl remnants in bottles used
for penicillin, streptomycin, and insulin. Fel'd. i akush. 25
no.3:49-50 Mr '60. (MIRA 13:6)

(ETHYL CHLORIDE)

SOBOLEV, V.S., akademik, red.; SHATALOV, G.Y. [translator];
STARIKOVA, L.M., red.; GRIBOVA, M.P., tekhn. red.

[Problems of theoretical and experimental petrology] Voprosy teoreticheskoi i eksperimental'noi petrologii; sbornik statei. Moskva, Izd-vo inostr. lit-ry, 1963. 530 p.
Translated from the English. (MIRA 16:12)
(Petrology)

STARIKOV, Leonid Yefimovich; POLYAKOVA, N., redaktor; DANILINA, A.,
tekhnicheskiy redaktor

[Management of socialist industrial enterprises] Upravlenie
sotsialisticheskim promyshlennym predpriatiem. Moskva, Gos.
izd-vo polit.lit-ry, 1957. 33 p. (MIRA 10:9)
(Industrial management)

STARIKOV, Leonid Yefimovich; BOBYLEVA, L.V., red.; YEROKHINA, L.I.,
tekhn. red.

[Potentials within the plant and methods for uncovering them]
Vnutrizavodskie rezervy i metody ikh vyivleniia. Mo-
skva, Ekonomika, 1964. 164 p. (MIRA 17:3)

NIKONOV, A.P., kand. tekhn. nauk; STARIKOV, L.A., inzh.

Mathematical model with a computer for determining the relative effectiveness of central heating. Teploenergetika 12 no.11:57-62 N '65. (MIRA 18:10)

1. Energeticheskiy institut Sibirskogo otdeleniya AN SSSR.

RAVIKOVICH, I.M.; BRAGIN, Yu.S.; KHUDOROZHKO, I.P.; MAYZEL', G.M.; STARIKOV,
M.A.; GROSHEV, M.Ya.; BUTIVCHENKO, V.N.; Prinimali uchastiye:
ANTOSHECHKIN, M.P.; MARKOV, V.N.; CHEKH, N.A.; OBUKHOVA, E.N.;
VOZZHAYEV, A.S.

Production of ferrovanadium sinter at the Lebyazh'ye sintering
plant. Stal' 25 no.6:484-486 Je '65. (MIRA 18:6)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat.

STARIKOV, M.D., inzhener.

The GB-58 and GT-58 gas generator tractors. [Trudy] NATI no.13:3-22
'56. (Tractors--Gas producers) (MLRA 9:9)

USSR/Chemical Technology - Chemical Products and Their
Application. Treatment of Solid Mineral Fuels

I-7

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2492

Author : Starikov, M.D.

Inst : -

Title : Experience with Operation of Gas Generator Tractors GB-58.

Orig Pub : Sb.: Gazifik. tverdogo topliva. M., Gostoptekhnizdat, 1957,
357-364

Abstract : A diagram is shown of a unit including a gas generator that operates according to the reversed gasification process, using blocks of wood or peat briquettes. An account is also given of the results of field and laboratory tests of gas generator tractors.

Card 1/1

STARIKOV, M.G.

552. CHANGING THE PROPERTIES OF DEPOSITS ON HEATING SURFACES OF OIL-FIRED BOILERS WITH ADDITIVES. Kayazev, H.H., Sinyavskii, A.V. and Starikov, M.G. (Elektr. Sts. (Pwr Sts. Moscow), Jan. 1957, vol. 28, 22-25). Experiments at a power station are recorded and the following interim conclusions are drawn. The addition of reagents changes the physico-chemical properties of the ash: lime and dolomite in particular improve the structure of deposits and diminish the aggressiveness of the ash. It is best to introduce additives in the gas tract separately from the fuel. Decreasing the acidity of deposits increases their neutralizing capacity and should lower the dew point. The quantity of additive should be based on the quantity of fuel and its sulphur content. (L).

3
Elec. Eng.

Map

~~STARIKOVA~~, M.M.

Effect of the addition of synthetic fibers on the properties
of half-woolen suiting cloth. Izv. vys. ucheb. zav.; tekhn.
tekst. prom. no.6:15-17 '64. (MIRA 18:3)

1. Moskovskiy kooperativnyy institut.

STARIKOV, N.A.

DECEASED
C' 1961

1962/5

SEE ILC

MINING ENGINEERING

DMITROVSKIY, A.A.; STARIKOVA, N.A.

Transformation of β -carotene into vitamin A by the *Pseudomonas aeruginosa* culture. Dokl. AN SSSR 163 no.2:495-496 J1 '65. (MIRA 18:7)

1. Institut biokhimii im. A.N.Bakha AN SSSR. Submitted April 26, 1965.

1. STARIKOV, N. I.
2. USSR (600)
4. Mining Engineering
7. Advanced methods of labor in the mining industry. (Review of literature). Gorzhur No 12 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

STARIKOV, Nikolay Ivanovich

SHOSTAK, Afanasiy Grigor'yevich; STARIKOV, Nikolay Ivanovich; SOSEDOV, O.O.
redaktor; MIKHAYLOVA, V.V., tekhnicheskiiy redaktor.

[New equipment and progressive work organization in mines of the
Krivoy Rog basin] Novaya tekhnika i peredovaya organizatsiya truda
na shakhtakh Krivorozhskogo basseina. Moskva, Gos. nauchno-tekhn.
izd-vo lit-ry po cherno i tsvetnoi metallurgii, 1955. 165 p.
(Krivoy Rog--Mining engineering) (MLRA 8:9)

1955, 1956.
MARTYNOV, V.K.; STARIKOV, N.I.; LAVRINENKO, V.F.

Multiple operation work organization in sub-level caving. Gor.zhur.
no.6:19-22 Je '55. (MLRA 8:8)
(Mining engineering)

MALAKHOV, Georgiy Mikhaylovich; SHOSTAK, Afanasiy Grigor'eyvich; STARIKOV, ~~Nikolay Ivanovich~~; AFONINA, G., vedushchiy redaktor; NOVIK, A.,
tekhnicheskiiy redaktor

[History of mining in Krivoy Rog Basin] Istoriia gornogo dela v
Krivorozhskom basseine. Kiev, Gos. izd-vo tekhn. lit-ry USSR,
1956. 341 p. (MLA 10:2)
(Krivoy Rog--Iron mines and mining)

STARIKOV, NIKOLAY IVANOVICH

PHASE I BOOK EXPLOITATION

520

Malakhov, Georgiy Mikhaylovich; Starikov, Nikolay Ivanovich; Shostak, Afanasiy Grigor'yevich

Osnovnaya zhelezorudnaya baza SSSR; ocherk razvitiya Krivorozhskogo basseyna (The Main USSR Iron-ore Deposits; Outline of the Development of the Krivoy Rog Basin) [Moscow] Meallurgizdat, 1957. 161 p. 3,000 copies printed.

Ed.: Shaforenko, I.P.; Ed. of Publishing House: Partsevskiy, V.N.; Tech. Ed.: Karasev, A.I.

PURPOSE: This book is addressed to all readers interested in the development of the Soviet iron-ore industry.

COVERAGE: The book deals with the development of the Krivoy Rog Iron-ore Basin, especially under the Soviet regime. A geological sketch of the region is given. Mining methods before and after the Revolution are discussed. Progressive development of the region

Card 1/6

The Main USSR Iron-ore Deposits (Cont.)	520
Ch. II. The Mining Industry in the Krivoy Rog Basin Before the October Revolution	15
History of the discovery and geological exploration of the Krivoy Rog deposits during the period prior to their exploitation	15
Development of the mining industry in the Krivoy Rog Basin during the prerevolutionary period	21
Mining techniques in the Krivoy Rog Basin before the Revolution	29
Working and living conditions among the miners of the Krivoy Rog Basin before the Revolution	51
Ch. III. The Krivoy Rog Basin During the Years of the First Five Year Plan	56
Restoration and reconstruction of the mines of the Krivoy Rog Basin	56
Card 3/6	

The Main USSR Iron-ore Deposits (Cont.)	520
Ch. VI. The Krivoy Rog Basin During the Years of the Fifth Five Year Plan	
Development of the Krivoy Rog Basin during the Fifth Five Year Plan	133
Development of mining systems	133
Development	136
Mechanization and automation of mines of the Krivoy Rog Basin in the Fifth Five Year Plan	141
Development of existing workings	143
Ch. VII. Development of the Krivoy Rog Basin During the Sixth Five Year Plan	144
Special features of the development of the Krivoy Rog Basin during the Sixth Five Year Plan	147
Development of underground mining methods	147
Card 5/6	148

STARBUCK
LUGOVSKIY, S.I., prof., doktor tekhn. nauk; KANDYBA, M.I., kand. tekhn. nauk;
YESIPENKO, G.I., gornyy inzh.; STARIKOV, N.I., gornyy inzh.

"Principles of mining by I.S. Volkov. Reviewed by S.I. Lugovskii
and others. Gor. zhur. no.2:77-78 F '58. (MIRA 11:3)

1. Krivorozhskiy gornorudnyy institut.
(Mining engineering)
(Volkov, I.S.)

STARIKOV, N.I., gornyy inzh.; FAUSTOV, G.T., gornyy inzh.

Practice of using deep holes in hard rocks in chamber mining
systems. Gor. zhur. no.12:19-26 D '61. (MIRA 15:2)

1. Krivorozhskiy gornorudnyy institut.
(Mining engineering)

ZOLOTAREV, I.I., gornyy inzh.; STARIKOV, N.I., gornyy inzh.;
FAUSTOV, G.T., gornyy inzh.

Working parallel deposits in the Krivoy Rog Basin.
Gor. zhur. no.6:19-23 Je '62. (MIRA 15:11)

1. Rudnik im. XX parts"yezda, Krivorozhskiy basseyn
(for Zolotarev). 2. Krivorozhskiy gornorudnyy institut
(for Starikov, Faustov).
(Krivoy Rog Basin---Iron mines and mining)

KUKHAREV, M.N., kand.tekhn.nauk; STARIKOV, N.I., inzh.; KORETSKIY, N.I., inzh.

Expediency of changing the form of the cutoff window in the sleeve
of a fuel pump. Trakt. i selkhoz mash. 32 no.3:14-15 Mr '62.
(MIRA 15:2)

1. Voronezhskiy sel'skokhozyaystvennyy institut.
(Tractors--Fuel systems)

Starikov, N.M.

USSR/Medicine - Preventive, in Industry

FD-1871

Card 1/1 Pub. 102-6/15

Author : Starikov, N. M.

Title : Suppurative skin diseases among workers of timber rafting industry

Periodical : Sov. zdrav., 2, 27-31, Mar-Apr, 1955

Abstract : Furunculosis, paronychia, abscess of cutaneous and subcutaneous tissues have been the principal causes for temporary disabilities among workers in timber rafting industry. Crowded living quarters, absence of proper hygienic conditions, and lack of bathing facilities on floating barges have been the main causes for high incidence of suppurative skin diseases; improper diet and vitamin deficiency have been the contributing factors. Health agencies must assign more medical personnel to timber rafting industry and call attention of medical specialists to greater exigency for preventive medical service. So far all efforts have been confined to dispensary method of medical care.

Institution: Chair of Public Health Organization and History of Medicine, Tomsk Medical Institute imeni V. M. Molotov (Prof N. P. Fedotov, Chief)

Submitted : November, 24, 1954

STARIKOV, N. M. Cand Med Sci -- (diss) "On the problem of incidence of disease, traumatism, and organization of medical ~~help~~ ^{service} among workers of timber rafting enterprises ~~in the~~ ^{of} Tomskaya Oblast." Tomsk, 1957. 20 pp 20 cm. (Tomsk Med Inst im V. M. Molotov. Chair of Organization of Health ~~and~~ Protection and History of Medicine), 200 copies. (KL, 24-57, 121)

STARIKOV, N.M.
STARIKOV, N.M.

Characteristics of occupational injuries in loggers. Gig. i san.
22 no.4:81-83 Ap '57. (HLR 10:9)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny
Pomorskogo meditsinskogo instituta imeni V.I. Molotova.
(ACCIDENTS, INDUSTRIAL, statistics,
in loggers (Rus))

MENDRINA, G.I., dotsent; STARIKOV, N.M., dotsent; GRIGOR'YEV, S.F.

Interprovince conference on the regional history of medicine and
public helath in Siberia. Sov.zdrav. 20 no.1:93-96 '61.
(MIRA 14:5)

(SIBERIA—PUBLIC HEALTH—CONGRESSES)

STARIKOV, N.P., podpolkovnik meditsinskoy sluzhby

Some criteria of recovery in dysentery. Voenn.-med. zhur.
no.4:82 Ap '61. (MIRA 15:6)

(DYSENTERY)

STARIKOV, N. V.

Starikov, N. V.

"Certain thermodynamic laws of the real cycles of heat engines." Min
Higher Education USSR. Moscow Order of Lenin Aviation Inst imeni S.
Ordzhonikidze. Moscow, 1956. (Dissertation for the Degree of Candidate
in Technical Sciences).

Knizhnaya letopis'
No. 21, 1956. Moscow.

STARIKOV, N.V.

N.P. Ogarev on technical education ("Selected sociopolitical and
philosophical works" by N.P. Ogarev. Reviewed by N.V. Starikov).
Politekh. obuch. no.3:79-80 Mr '58. (MIRA 11:2)
(Russia--Social conditions)
(Technical education)
(Ogarev, N.P.)

ROZHKOV, M.M. (g.Penza); STARIKOV, P.A., inzh. (g.Khabarovsk); KLENOV, A. (g.Sverdlovsk); GUBAR', V.V. (g.Elektrostal', Moskovskoy obl.); MALYY, E.L.

The "Shkol'nik" motion-picture apparatus. Fiz. v shkole 19
no.2:68-70 Mr-Ap '59. (MIRA 12:4)

1. 68-ya srednyaya shkola, g. Sverdlovsk (for Klenov). 2. 10-ya
srednyaya shkola (for Gubar'). 3. Starshiy inzhener po kinofi-
katsii Glavsnabprosa (for Malyy).
(Motion-picture projectors)

STARIKOV, P. P.

"Repair of Blades of the Universal Microscope," Stanki i Instrument,
10, Nos. 10-11, 1939.

Report U-1505, 4 Oct 1951.

AID P - 5391

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 21/28

Author : Starikov, P. P.

Title : Machining bevel gears with single cutter

Periodical : Stan. i instr., 9, 35, S 1956

Abstract : A method of generating bevel gears on the AKN-O machine tool with just one cutter instead of the prevailing method of using the Bilgram bevel gear shaper with three cutters is described. It is practiced at one of the Leningrad plants.

Institution : As above

Submitted : No date

STARIKOV, P.V.; LYSENKOV, P.N.

Case of cattle poisoning with hay containing Thermopsis.
Veterinariia 41 no.2:72 F '65. (MIRA 18:3)

1. Zamestitel' nachal'nika Upravleniya veterinarii TSelinnogo krayevogo upravleniya proizvodstva i zagotovok sel'skokhozyaystvennykh produktov (for Starikov). 2. Glavnyy veterinarnyy vrach Upravleniya veterinarii TSelinnogo krayevogo upravleniya proizvodstva i zagotovok sel'skokhozyaystvennykh produktov (for Lysenkov).

Starikov, P. Ya.
USSR/Chemistry - Miscellaneous

FD-2650

Card 1/1 Pub. 50-15/18

Authors : S.; Zhuravlev, V. V.; Kreysberg, A. Ya.; Matkovskiy, A. N. and
 Starikov, P. Ya; Korbe, G. D.

Title : ~~Starikov, P. Ya.~~
 : News items

Periodical : Khim. prom. No 3, 165-170, Apr-May 1955

Abstract : Contains brief items dealing with the results of chemical in-
 dustry operations during the first quarter of 1955, desired
 improvements at farms run by enterprises of the Ministry of
 Chemical Industry, improvement of planning of the chemical in-
 dustry employment of young technical men at chemical enter-
 prises, outstanding work done by individual operators of the
 synthetic ammonia and ammonium nitrate industries, and "social-
 istic competition" in the tire industry.

MATKOVSKIY, A.N.; MELENT'YEV, V.A.; STARIKOV, P.Ya.

Change in the system of drawing off condensate from granulation
towers. Khim.prom. no.8:483 D '55. (MLRA 9:5)
(Ammonium nitrate) (Chemical engineering--Apparatus and supplies)

STARIKOV, V.

Labor resources of Krasnoyarsk Territory. Sots.trud. 7
no.7:26-27 JI '62. (MIRA 15:8)
(Krasnoyarsk Territory--Labor supply)

STARIKOV, V. A.

Starikov, V. A. - "On the problem of using vertical drainage in the Vakhsh Valley,"
Sel. khoz-vo Tadzhikistana, 1948, No. 6, p. 9-11.

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 6, 1949).

STARIKOV, V.A.

New objects for irrigation in the Tajik S.S.R., V.A. Starikov.
Izv.otd.est.nauk AN Tadzh.SSR no.8:99-112 '54. (MLRA 9:9)

1. Institut pochvovedeniya, melioratsii i irrigatsii AN Tadzhik-
skoy SSR. (Tajikistan--Irrigation)

STARIKOV, V.A.

Prospects for the development of irrigation in the Tajik S.S.R.
Izv. Otd. est.nauk AN Tadzh.SSR no.23:71-84 '57. (MIRA 11:8)

1. Institut pochvovedeniya, melioratsii i irrigatsii AN
Tadzhikskoy SSR.
(Tajikistan--Irrigation)

STERIKOV, V.A.

History of the "Great Vakhsh" project. Trudy Otd. energ. Ak.
Tadzh. SSR 3:15-18 '60. (MIRA 14:2)
(Vakhsh River—Power utilization)

LIKHACHEV L.Ya., Inzh.; KHARITONOV, A.S., Inzh.; VASIL'YEV, G.V.; STARIKOV, V.F.

Using overall dust suppression at the "Abashevskaya-2" mine. Ugol'
40 no.6:61-63 Je 65. (MIRA 18:7)

1. Vostochnyy nauchno-issledovatel'skiy institut po bezopasnosti rabot
v gornoy promyshlennosti (for all except Kharitonov). 2. Shakhta "Abashev-
skaya-2" (for Kharitonov).

STARIKOV, V.G., assistant.

Conditions for centralizing electric power supply in combined
and separate-unit production of electric power and heat. Trudy
LII no. 12:102-119 1956. (MLRA 10:6)
(Heating from central stations) (Electric power plants)

STARIKOV, V G.

PHASE I BOOK EXPLOITATION

848

Leningrad. Inzhenerno-ekonomicheskii institut

Energetika (Power Engineering) [Leningrad] 1957. 245 p. (Series: Its: Trudy, vyp. 19) 4,000 copies printed.

Eds. (title page): Ayzenberg, B.L. and Melent'yev, L.A.; Ed. (inside book): Slizhis, M.U.; Tech. Ed.: Kononovich, D.P.

PURPOSE: This collection of articles is intended for power engineers of electric power systems and industrial plants, for technical personnel of municipal and factory electric power and heating systems, and for teachers and students of power and electrical engineering vuzes.

COVERAGE: This collection of 17 papers studies problems of the efficient design and development of electric power networks and systems (methods of determining the radius of action of district substations, optimum parameters of municipal electrical networks, and their selective protection), problems of district heating and of

Card 1/14

Power Engineering

848

heat-and-power engineering (methods of evaluating and increasing the thermal efficiency of district heating and the piping systems of TETs (Heat-and Electric Power Plant), conditions for the use of backpressure turbines, selection of drives for hammers and punches, selection of efficient operating conditions of heating systems, methods of increasing the power of condensation systems), and power engineering problems abroad. This collection of articles of LIEI (Leningrad Engineering and Economics Institute) is devoted to the scientific works of special departments of the Power Engineering Faculty of the Institute. These works are an extension and development of previous works, the results of which were published in LIEI issues Nos. 11 and 12, 1956 and No. 16, 1957.

TABLE OF CONTENTS:

Introduction

3

PART I. ELECTRIC POWER ENGINEERING

5

Card 2/14

848

Power Engineering

Nikogosov, S.N., Docent, Candidate of Technical Sciences. Determining the Most Economical Capacity of a District Substation and the Radius of Action of a Network Operating on Generator Voltage of an Electric Power Station

5

The author explains his method of investigation and determines analytically the most efficient capacity of a district substation for different cases of feed source location. He discusses the district substation cost as a function of its power capacity and works out a capital investment equation for the whole electric power transmission. The author gives an analysis of investment costs and power losses of network components: HV network and cells, step-down substations, medium-voltage feed network and cells, and substation transformers. He determines and compares the most economical power capacity of a district substation based on capital expenditures and annual operating expenses. He derives a complete set of equations for the annual operating expenses of electric power transmission and gives conclusions for the most economical power

Card 3/14

848

Power Engineering

capacity and efficient radius of action. There are no references.

Starikov, V.G., Candidate of Economic Sciences. Selection of Economically Expedient Standard Gages of Overhead Line Conductors 33

The author stresses that the existing method of wire gage selection, based on current-density, has serious drawbacks. It usually leaves two neighboring standard gages as an optional choice. He tries to correct this deficiency by a new method of relative economical characteristics for HV transmission lines, which determines the proper choice between two gages. There are no references.

Ayzenberg, B. L., Docent, Candidate of Technical Sciences. Investigation of the Selective Protection of Networks by Safety Fuses

43

Card 4/14

848

Power Engineering

The author summarizes the results of 20 years experience and special investigations in this field made by the Scientific Research Laboratory "Sevzapelektromontazh" and the Leningrad Cable Network. He proves the advantages of the new type of PK safety fuses for 6 to 10-KW closed network circuits. The fuses were developed and produced in 1956 by the "Proletariy" Plant. There are 22 references, of which 14 are Soviet, 6 English and 2 German.

Klionskaya, R.I., Engineer. Electrical Network Parameters for Small and Medium-sized Cities

58

The author states that the choice of parameters for construction of municipal electrical networks was limited until now to Leningrad and Moscow. The purpose of this paper is to supply adequate information for small and medium-sized cities concerning parameters of voltage, wire gages, quantity and capacity of line and distribution substations, and choice of the most economical network layout. The author

Card 5/14

Power Engineering

848

made a series of investigations on two sectors of the Lenin-grad Electric Network. There are 31 Soviet references.

Ayzenberg, B.L., Docent, Candidate of Technical Sciences.
Nonferrous Metal Expenditures in Municipal Distribution Networks 88

The author compares "ideal town" conditions with practical requirements and supplies the necessary parameter indices for nonferrous metal expenditures. There are 6 Soviet references.

Dmitriyev, V.M., Engineer. Optimum Distribution of Rated Voltage Loss Between Low-and Medium-voltage Networks 93

The author analyzes the voltage loss parameters of 1940 which are still employed in Soviet construction of electric power networks: 6-8% for MV networks and 6% for LV networks. He concludes that a certain increase in network losses obtained when minimizing nonferrous metal expenditures is permissible. There are no references.

Card 6/14

Power Engineering

848

Klebanov, L.D. Determination of Electric Power Losses in the Leningrad Cable Network

99

The author made a study of changes in electric power losses in the Lenenergo system during the period between 1946 and 1956. He describes a method of network calculation which helps to avoid uneconomical nonferrous metal expenditures and also to prevent an increase of voltage losses. There are no references.

PART II. HEAT-AND-POWER ENGINEERING

Nikonov, A.P., Engineer. Basic Trends in Power Efficiency and Increasing the Economy of District Condensation Power Stations

108

The author explains his method of evaluating the ideal energy efficiency of heat systems of a KES (condensation power station). Further, he discusses a method of tech-

Card 7/14

848

Power Engineering

nical and economic calculation and presents an analysis of factors which determine ways to increase the overall economic efficiency of a KES. He draws attention to the increase of initial steam parameters as a way to achieve technical and economic efficiency of a KES. There are 4 Soviet and 1 English reference.

Kirpichev, V.I., Engineer. Characteristic of Relative Thermal Economy for TETs (Heat-and-Electric Power Plant) with Heating Load

128

According to the author, his paper proves that it is possible to increase considerably the fuel economy of a district heating system by shifting the TETs to higher initial steam parameters. There are 5 Soviet references.

Card 8/14

Power Engineering

Grachev, Yu. P., Engineer. Inner Reserves of "Home Heating" District Heating Systems

137

During the period between March and May 1956, the Lenin-grad Enginnering and Economics Institute together with Teploset' Lenenergo conducted a series of thermographic studies in 24 apartments of the city. The author presents results of these studies in graphical form and analyzes methods for increasing the fuel economy of district home-heating systems. There are 2 Soviet references.

Frolov, V.I., Engineer. Economic Expediency of Employing Different Power Carriers for Hammer and Punch Drives

148

The author discusses the influence of the type of power carrier used on TETs rated capacity, calculates load and annual electrical energy losses, and also makes a detailed expenditure and investment comparison between steam and electric drive systems for hammer and punches. There are 7 Soviet references.

Card 9/14

848

Power Engineering

Sashonko, G.I., Engineer. Selection of Central Control Operating Conditions for "Open" District Heating Systems (With Quantitative and Qualitative Heat Delivery Control)

170

The author describes two central control methods: H=const. and G=const., the first representing constant consumer demand and the second constant heating-water consumption. These problems were studied on the basis of diagrams of qualitative and quantitative control developed and analyzed with application to the Lenenergo District Heating System. There is also a brief description of an automated mixing substation. There are 10 Soviet references.

Davydova, L.N., Engineer. Experimental Results of Electrical Analysis of the Hydraulics of Heating Systems

184

According to the author the present district heating systems are unable to further increase the economy and

Card 10/14

848

Power Engineering

The author analyzes all factors bearing on labor expenditures for the repair of different types of equipment. In his study he presents a further development of a work by A. S. Sereda, an engineer at GLAVURALENERGO, ("Economics and Technico-Economic Indices of Heat and Power Equipment Maintenance in Electric Power Stations" appearing in Maintenance of Heat Engineering Equipment in Electric Power Stations, Gosenergoizdat, 1952). The author supplies graphs and formulae to make calculation as complete as possible. There is one reference.

PART III. POWER ENGINEERING ABROAD

Bril', L. Ya., Docent, Candidate of Economic Sciences. Development of Power Engineering in the People's Republic of China 218

The author compares the conditions and statistical data of pre-revolutionary China with the transformation and

Card 12/14